

Approvals	
Work Assignment Manager	Date
Project Officer	Date

WORK PLAN

Technical and Regulatory Support in the Possible Development of a Rulemaking to Modify NESHAPs Subpart W, the National Emissions Standards for Radon Emissions from Operating Mill Tailings (40 CFR 61.250)

Prepared by:

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Under

Contract Number EP-D-10-042
Work Assignment No. 3-03

Prepared for:

U.S. Environmental Protection Agency
Office of Radiation and Indoor Air
Ariel Rios Building
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1.0 BACKGROUND AND OBJECTIVES

The U.S. Environmental Protection Agency's (EPA's) Office of Radiation and Indoor Air (ORIA) promulgated a National Emission Standard for a Hazardous Air Pollutant (NESHAP) for radon emissions from operating uranium mill tailings impoundments (Subpart W) on December 15, 1989. Subpart W includes two separate standards. First, existing sources must ensure emissions from tailings impoundments not exceed 20 pCi/m²-sec of radon-222. Second, new sources must comply with the requirements for constructing one of two types of impoundment structures. Subpart W requires that existing sources file an annual report of the facility's emissions. Section 112(q) of the Clean Air Act, as amended (CAAA) requires EPA to review, and if appropriate, revise, this standard on a timely basis (10-year interval). The Agency has not reviewed this standard in the period allotted and now desires to do so.

The purpose of this Work Assignment (WA) is to obtain follow-on support from SC&A, Inc. (SC&A) to address issues raised by the Office of Management and Budget (OMB) and others regarding the content of the Background Information Document, including the Economic Impact Analysis and to receive support for the development of a response to comments document. It is important to note that this rulemaking is now on an accelerated time schedule, and the contractor will be tasked as such. The WA 2-03 Quality Assurance Project Plan (QAPP) will be used for this WA.

2.0 TASK DESCRIPTIONS AND APPROACH

SC&A will meet the objectives of this Work Plan by performing three distinct tasks, as described below. In meeting the requirements of this WA, SC&A will be in a support role, and will not be involved in the development of EPA policy, nor in any other activity that is an "inherently governmental function."

2.1 Task 1 – Prepare Work Plan and Cost Proposal

This Work Plan fulfills the deliverable requirements for Task 1. It presents SC&A's approach for accomplishing the WA, including a schedule of deliverables, staffing plan (with statements of experience), estimated labor hours and a detailed cost proposal, with relevant ODCs, on a task-by-task basis.

2.2 Task 2 – Respond to comments received from Office of Management and Budget (OMB) or other Offices with EPA on Background Information Document for NESHAP Subpart W

If, during the course of review by OMB or other offices within EPA, questions or comments arise concerning technical and or economic information contained in the Background Information Document and Economic Impact Analysis prepared under WA 2-03, the WAM shall submit these comments to SC&A for developing responses. SC&A will prepare the draft responses to the questions or comments raised, and submit them to the WAM for review within 14 working days after receipt from the WAM. The WAM shall review the responses within 7 working days, and shall notify SC&A whether the responses are acceptable. If there are

questions or revisions, SC&A will respond to those questions or revisions and submit a final response to the WAM within 7 working days of receipt of the comments from the WAM.

2.3 Task 3 – Assist in responses to comments received during public comment period of Subpart W proposal

After the public comment period for the proposed rule has closed, the WAM will meet with SC&A to determine the path forward for responding to public comments. The WAM, at his discretion, shall submit groups of comments to SC&A who will respond to the comments using the plan outlined in the proposed rule or Background Information Document in Section 2.2 above. SC&A will submit responses to comments depending on the volume of comments received from the WAM. This schedule shall be developed during the meeting with SC&A to discuss the path forward.

3.0 STAFFING PLAN

The staffing plan for this WA will focus mainly on SC&A personnel who have experience in NEPA compliance and preparation of NEPA documentation, with specific expertise in the area of radiological impacts to the environment and health and safety of the public from the construction and operation of nuclear facilities. The proposed personnel have experience in developing comment-response documents.

Personnel on the proposed SC&A team are described below, along with an indication of the role we anticipate each will play. SC&A has selected these individuals to work on this WA because of their involvement in the preparation of the Background Information Document, including the Economic Impact Analysis, under WAs 2-03 and 2-04. Without knowledge of the specific questions and/or comments on the BID/EIA, the extent of any individual on the proposed staff's involvement is unknown at this time. However, by including them in the staffing plan, they will be available to ORIA, should they be needed to respond to a question or comment.

3.1 Specific Staffing

Dr. Abe Zeitoun is the SC&A Project Manager for this contract. Dr. Zeitoun is a Senior Vice President with SC&A and will have full authority to direct all services of the SC&A team. This will also provide Dr. Zeitoun ready access to the full resources of the company. He has more than 35 years of experience as a technical manager, with a proven track record in the management and oversight of multitask projects and programs. Dr. Zeitoun successfully managed the previous 5-year ORIA Task Order Contract which is the predecessor of the current contract, and has supported WAs 2-03 and 2-04 on this contract.

SC&A is proposing **Mr. Stephen Marschke** to be the Task Manager for this WA; he will also function as the SC&A principal point of contact and senior technical analyst for all the deliverables. Mr. Marschke has over 35 years of experience in nuclear engineering and radiological assessment. Mr. Marschke has performed the analyses of the radiological impact sections in support of the preparation of the licensing of various pressurized and boiling water reactors. Mr. Marschke has successfully managed numerous multi-discipline technical NRC,

EPA, DOE, NIOSH, and private client projects. For ORIA, Mr. Marschke served as the Task Manager for WA 5-13, “Technical Support for Review of Nuclear Power Plant Environmental Impact Statements;” WA 5-16, “Use of Integrated Environmental Decision-Making to combine GHG and Radiological Hazards on Energy Alternatives using Life Cycle Analyses;” and WA 5-19, “Gap Analysis for 40 CFR Part 190 Environmental Protection Radiation Standards for Nuclear Power Operations” under EPD05002, and WA 1-06, “Technical Revisions for 40 CFR Part 190 Environmental Protection Radiation Standards for Nuclear Power Operations” under the current contract. Also for the current contract, Mr. Marschke was one of the key authors of the Subpart W Background Information Document prepared under WA 2-03 and the Subpart W Economic Impact Analysis prepared under WA 2-04.

Dr. Stephen Ostrow, SC&A’s Senior Vice President of Advanced Technology, is the proposed quality assurance specialist for this WA. Dr. Ostrow has over 30 years of experience with nuclear projects, including different power and research reactor types, fuel and radioactive waste storage facilities and repositories, and fuel cycle facilities, and served as Manager and Chief Engineer of Nuclear Engineering of a major architect-engineering firm, where he was responsible for all radiation-related tasks. He has led and participated in environmental impact and cost analysis studies for different facilities. In addition, Dr. Ostrow has participated as Task Manager, Technical Analyst, and QA Manager in several WAs under the previous SC&A/EPA ORIA contract.

Dr. Harry Pettengill is a proposed Technical Advisor for this WA. He has over 35 years of experience as an executive manager of health and safety in the federal sector. He served in managerial positions at EPA, Office of Radiation Programs (1975–1979). At EPA, he served as Deputy Manager, Waste Environmental Standards Program. He also coordinated and served as the EPA representative to the Conference of Radiation Protection Program Directors and the interagency activities of the Committee on Radiation Protection and Public Health. At the U.S. Nuclear Regulatory Commission (NRC), Dr. Pettengill directed federal activities required under UMTRCA. Included in his responsibilities were the management and direction of uranium recovery programs. Dr. Pettengill has supported ORIA on a number of Uranium Recovery Program tasks, including serving as the Task Manager for WAs 2-03 and 2-04 on the current contract.

Dr. Les Skoski is a proposed Technical Advisor for this WA. He has over 35 years experience in managing projects or tasks dealing with uranium and thorium from mining to remediation of commercial and industrial sites contaminated with NORM materials. These include primary uranium producers in the USA and abroad, secondary uranium/thorium metal and non-metal miners and millers (e.g. phosphates), and NORM-contaminated Superfund, FUSRAP and SDMP sites. He prepared regulatory compliance programs for over twenty domestic and foreign primary and secondary uranium producers including conventional mill, heap-leach and in-situ facilities, and phosphate, copper, beryllium, and other mineral processing facilities with uranium extraction circuits. Dr. Skoski has supported a number of Uranium Recovery Program tasks for ORIA including WAs 5-03, 5-04, and 5-17 (EPD05002), and 2-03 and 2-04 on the current contract.

Mr. David Goldin is a proposed Technical Advisor for this WA. He has previously managed projects assisting EPA in the development and implementation of radionuclide NESHAPs and its

reconsideration of the NESHAPs for NRC-licensed facilities, phosphogypsum stacks, and uranium mill tailings disposal sites. He holds a B.S. in Economics and has also participated in a regulatory-impact assessment of proposed revisions of 10 CFR 50, Appendix J on leak-rate testing requirements at nuclear power reactors, and performed an evaluation of decommissioning costs for DOE-owned nuclear facilities. Mr. Goldin has supported ORIA on a number of Uranium Recovery Program tasks, including performing the small business impact assessments required under the Regulatory Flexibility Act for changes under consideration for Subpart W and 40 CFR Part 192.

Mr. Gary Konwinski is a proposed Technical Advisor for this WA. He has more than 35 years of relevant experience, including 11 years as a senior license reviewer and senior environmental and safety inspector for the NRC. He was responsible for reviewing license renewals and terminations for a variety of uranium recovery facilities. Additionally, Mr. Konwinski was the Decommissioning Program Manager for the 800-Area at Rocky Flats (uranium and beryllium processing facilities). In this capacity he was responsible for operational and decommissioning work, while assuring that plant emissions in the work areas were ALARA. Under the preceding contract, Mr. Konwinski has supported multiple tasks for the EPA Uranium Recovery Program. He was the senior lead on the review of environmental monitoring and all effluent control systems and technologies proposed for use in uranium recovery facilities. Mr. Konwinski supported a number of Uranium Recovery Program tasks for ORIA including WAs 1-04, 2-03, and 2-04 under the current contract.

Ms. Deborah Schneider is the lead technical writer and reviewer for this WA. Ms. Schneider holds a Masters of Public Health, with a concentration on health promotion and communication, and a B.A. in Foreign Affairs, with a minor in Environmental Science. Among her many communication projects since 2003, Ms. Schneider has managed two consecutive contracts for NRC to edit technical, policy, and other types of documents. In this capacity, she managed a team of editors that edited technical documents ranging from 10 to 1,000 pages.

Because the extent of the questions and/or comments that will be received from OMB or other offices is unknown, SC&A based our estimate of the number of work hours to perform Task 2 on the deliverable schedule provided in the WA 3-03 statement of work (SOW). In the SOW it was indicated that draft and final responses were due 14 and 7 days after receipt, respectively. This implies that SC&A has 21 workdays, or 168 hours, to complete the responses to the questions and comments. Thus, it was assumed that Task 2 would require 168 hours.

Likewise, for Task 3 the WA 3-03 SOW states that the schedule will be developed during the meeting between ORIA and SC&A after public comments have been received. In order to provide ORIA with a cost estimate, it was assumed that Task 3 would require the same amount of work effort as Task 2, i.e., 168 hours.

A breakdown of the proposed hours per task is presented in Table 1.

Table 1. Proposed Work-Hour Allocation by Task

Staff	Role	P-Level	Task 1	Task 2	Task 3	Total
A. Zeitoun	Project Manager	4	4	16	16	36
S. Marschke	Task Manager	4	12	66	66	144
S. Ostrow	QA/QC Manager	4	4	6	6	16
H. Pettengill	Technical Advisor	4	0	16	16	32
L. Skoski	Technical Advisor	4	0	30	30	60
D. Goldin	Technical Advisor	4	0	4	4	8
G. Konwinski	Technical Advisor	4	0	8	8	16
D. Schneider	Technical Writer	4	0	16	16	32
L. Loomis	Contracts Manager	3	2	6	6	14
	Total Technical	—	22	168	168	358
	Total Clerical	—	2	8	8	18
	Total Hours	—	24	176	176	376

4.0 COST ESTIMATE

The detailed cost estimate to complete all work is contained in the attachment to this Work Plan. We have estimated the labor costs using the proposed staffing mix from Section 3, Table 1. ODCs are estimated based on what we anticipate our actual requirements will be, using both historical data for similar work and projections.

Under Task 3, the WAM requested a meeting with SC&A to determine the path forward for responding to public comments on the BID/EIA. At this time, SC&A assumes that this meeting will be held via teleconference.

5.0 SCHEDULE OF DELIVERABLES

TASK	DELIVERABLE	DUE DATE
Task 1:	Work Plan	Within 20 days after receipt of WA
Task 2:	OMB/EPA Comment Draft Responses	14 days after receipt from WAM
	OMB/EPA Comment Final Responses	7 days after receipt of WAM's comments
Task 3:	Public Comment Responses	Schedule will be developed during the ORIA/SC&A meeting after receipt of comments

SC&A will provide two hard copies of all deliverables and an IBM PC compatible compact disk (CD) copy in Microsoft Word 2007 to the Work Assignment Manager.

The WAM is authorized to provide technical direction which clarifies the SOW as set forth in this WA. Technical direction will be issued in writing or confirmed in writing, by the WAM, within five (5) calendar days after verbal issuance.

The WAM will forward a copy of the technical direction memorandum to the Contracting Officer and a copy to the Project Officer. Technical direction must be within the contract and the WA statement of work. Technical direction includes (1) direction to SC&A which assists SC&A in accomplishing the Statement of Work, and (2) comments on and approval of reports and other deliverables.

6.0 CONFLICT OF INTEREST

To the best of our knowledge, no facts exist relevant to any past, present, or currently planned interest or activity (financial, contractual, personal, organizational, or otherwise), which relate to the proposed work, and suggest that SC&A has a possible conflict of interest with respect to (1) being able to render impartial, technically sound, and objective assistance or advice, or (2) being given an unfair competitive advantage. Should this situation change, appropriate steps will be taken as prescribed by the contract, and the EPA WAM and Project Officer will be notified.

7.0 MANAGEMENT APPROACH

The SC&A Project Manager and Task Manager will exercise appropriate control over the assigned tasks. In addition, the management team will advise the EPA Contracting Officer, the Project Officer, and the WAM as soon as it is known if any aspect or requirement of the WA cannot be met.

SC&A will follow the approved Work Plan for the duration of the WA. SC&A will use its best efforts not to exceed the total level of effort (labor hours) specified in the approved WA, or the total estimated cost presented in the Work Plan. SC&A will submit a revised Work Plan to the EPA Contracting Officer, the Project Officer, and the WAM for approval, as necessary, whenever SC&A becomes aware that the total level of effort or total estimated cost will be exceeded.

ATTACHMENT - Contract No. EPD10042
CRAE2/303; Work Assignment 3-03
Cost Estimate for Work Plan

Direct Labor

Name	P-level	Task 1	\$	Task 2	\$	Task 3	\$	Total	
		Hours		Hours		Hours		Hours	\$
A. Zeitoun	4	4		16		16		36	
S. Marschke	4	12		66		66		144	
D. Schneider	4	0		16		16		32	
<i>Employee P-4</i>		16	1,126	98	6,498	98	6,498	212	14,122
S. Ostrow	4	4		6		6		16	
L. Skoski	4	0		30		30		60	
<i>Employee 2 P-4</i>		4	333	36	2,689	36	2,689	76	5,711
D. Goldin	4	0		4		4		8	
G. Konwinski	4	0		8		8		16	
H. Pettengill	4	0		16		16		32	
<i>Associate P-4</i>		0	0	28	2,880	28	2,880	56	5,760
L. Loomis	3	2		6		6		14	
Employee P-3	3	0		0		0		0	
<i>Employee P-3</i>		2	97	6	290	6	290	14	677
Clerical		2		8		8		18	
<i>Employee Clerical</i>		2	54	8	218	8	218	18	490
Subtotal		22	1,610	168	12,575	168	12,575	358	26,760
Fringe1 (FR) on Empl 1 Labor @	47.21%		602		3,308		3,308		7,218
Fringe2 (FR) on Empl.2 Labor @	17.48%		58		470		470		998
OH on Empl. Labor + FR @	26.46%		600		3,565		3,565		7,730
Other Direct Costs (ODCs)									
Subcontract - None		0	0	0	0	0	0	0	0
Estimated Travel			0		0		0		0
Misc. ODCs (see attached detail)			28		104		164		296
Total ODCs		0	28	0	104	0	164	0	296
Subcontractor Handling @	4.04%		0		0		0		0
G & A Expense @ (app. to Total Labor + FR + OH + Non-Subcontract ODCs + Sub. Handling)	14.66%		425		2,937		2,946		6,308
Total Costs before Fee			3,323		22,959		23,028		49,310
Fixed Fee @	\$6.33 /hour		139		1,063		1,063		2,265
GRAND TOTAL		22	3,462	168	24,022	168	24,091	358	51,575

ATTACHMENT - Contract No. EPD10042
CRAE2/303; Work Assignment 3-03
Cost Estimate for Work Plan

Detail for ODC Estimates

Task 1:

Reproduction:	100 copies @	\$0.04 each	4
Telephone/Fax:	2 hours @	\$7.20 /hour	14
Postage/Delivery:	1 FedEx @	\$10.00 (est.)	10
Total ODCs			28

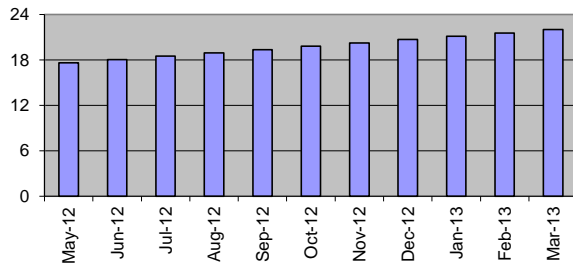
Task 2:

Reproduction:	300 copies @	\$0.04 each	12
Telephone/Fax:	10 hours @	\$7.20 /hour	72
Local Travel	0 trips @	\$30.00 /each	0
Postage/Delivery:	2 Fed-Ex @	\$10.00 each	20
Total ODCs			104

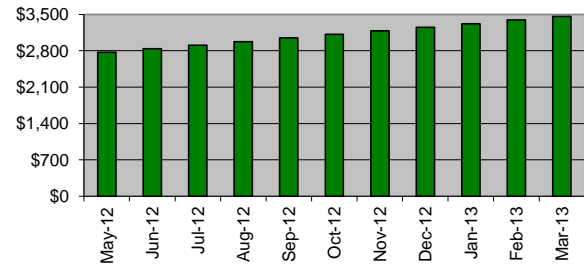
Task 3:

Reproduction:	300 copies @	\$0.04 each	12
Telephone/Fax:	10 hours @	\$7.20 /hour	72
Local Travel	2 trips @	\$30.00 /each	60
Postage/Delivery:	2 Fed-Ex @	\$10.00 each	20
Total ODCs			164

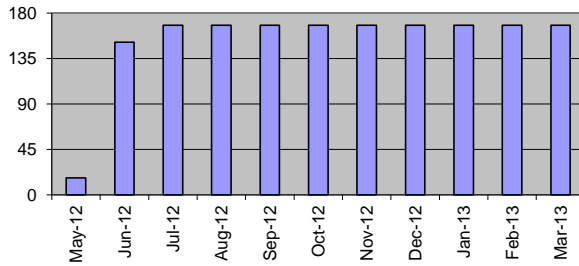
Projected LOE by Month, Task 1



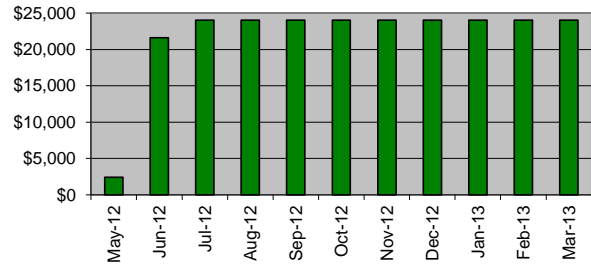
Projected Expenditures by Month, Task 1



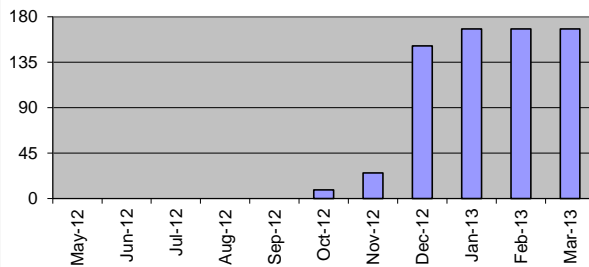
Projected LOE by Month, Task 2



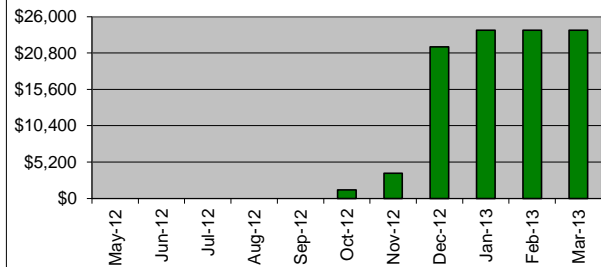
Projected Expenditures by Month, Task 2



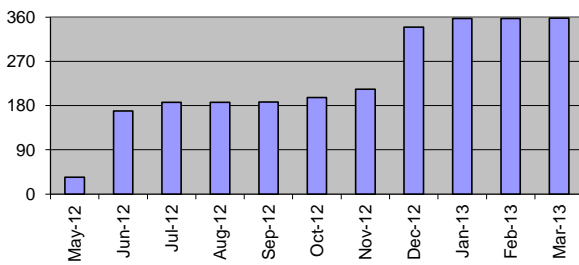
Projected LOE by Month, Task 3



Projected Expenditures by Month, Task 3



Projected LOE by Month, All Tasks



Projected Expenditures by Month, All Tasks

